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87. (Amended) A disk drive, comprising:

a disk having a plurality of concentric tracks for storing data, the tracks including a first track having a first data pattern with a first frequency and a second data pattern with a second frequency that is higher than the first frequency, wherein the first and second data patterns are located in separate non-overlapping circumferential portions of the first track;

a head for reading data from and writing data to the disk; and

a detection circuit that determines whether the head is within an acceptable flying height range in response to the first and second data patterns while the head is at a substantially constant flying height and independently of flying height data obtained from the disk drive at other than the substantially constant flying height.

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97. (Amended) A disk drive, comprising:

a disk having a plurality of concentric tracks for storing data, the tracks including a first track having a first data pattern with a first frequency and a second data pattern with a second frequency that is higher than the first frequency, wherein the first and second data patterns are located in separate non-overlapping circumferential portions of the first track;

a head for reading data from and writing data to the disk; and

a detection circuit that determines whether the head is within an acceptable flying height range in response to the first and second data patterns while the head is at a substantially constant flying height and independently of flying height data obtained from the disk drive at a predetermined flying height.

Add the following claims:

107. The disk drive of claim 87, wherein the first and second data patterns are circumferentially adjacent to one another.

108. The disk drive of claim 87, wherein the first and second data patterns are circumferentially spaced from one another.

109. The disk drive of claim 87, wherein the first and second data patterns each intersect a centerline of the first track.

110. The disk drive of claim 87, wherein the first data pattern is circumferentially adjacent to a first user data field on the first track.

111. The disk drive of claim 110, wherein the second data pattern is circumferentially adjacent to a second user data field on the first track.

112. The disk drive of claim 87, wherein the first and second data patterns are circumferentially adjacent to and separated by a region of the first track that is devoid of a user data field.

113. The disk drive of claim 112, wherein the region of the first track contains two servo burst fields between the first and second data patterns.

114. The disk drive of claim 112, wherein the region of the first track contains three servo burst fields between the first and second data patterns.

115. The disk drive of claim 87, wherein only one of the first and second data patterns provides servo positioning information.

116. The disk drive of claim 87, wherein both of the first and second data patterns provide servo positioning information.

117. The disk drive of claim 97, wherein the first and second data patterns are circumferentially adjacent to one another.

CB 118. The disk drive of claim 97, wherein the first and second data patterns are circumferentially spaced from one another.

119. The disk drive of claim 97, wherein the first and second data patterns each intersect a centerline of the first track.

120. The disk drive of claim 97, wherein the first data pattern is circumferentially adjacent to a first user data field on the first track.

121. The disk drive of claim 120, wherein the second data pattern is circumferentially adjacent to a second user data field on the first track.

122. The disk drive of claim 121, wherein the first and second data patterns are circumferentially adjacent to and separated by a region of the first track that is devoid of a user data field.

123. The disk drive of claim 122, wherein the region of the first track contains two servo burst fields between the first and second data patterns.

124. The disk drive of claim 122, wherein the region of the first track contains three servo burst fields between the first and second data patterns.

125. The disk drive of claim 97, wherein only one of the first and second data patterns provides servo positioning information.

126. The disk drive of claim 97, wherein both of the first and second data patterns provide servo positioning information.